

The Stabilwax® column can easily handle direct aqueous injections without showing any signs of degradation. Testing of the Stabilwax® column was performed by injecting 1µL of a water standard 100 times. Peak shape and response of ethylene and propylene glycol remained consistent throughout the analyses (**Figures 2 and 3**). The Stabilwax® column also allows sensitive detection of low ppm-levels of glycol compounds. Notice the 5ppm detection limit for ethylene glycol in water is easily achieved, and peak shape is maintained when compared to a 25ppm standard (**Figure 4**).

Conclusion

You can achieve better response and reproducibility for the GC analysis of ethylene glycol in water by using direct injection with a Uniliner® sleeve, a polar capillary column such as Stabilwax®, and multiple syringe washes between runs. Using these techniques can assist in attaining reproducible analyses with detection limits in the low ppm range.

